

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Barry W. TOWNSEND, et al.

Serial No.: To be assigned

Filed: March 25, 2005

International Appln. No.: PCT/US2002/030471

International Filing Date: September 26, 2002

For: PROSTHETIC FOOT WITH TUNABLE PERFORMANCE

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97 & 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

March 25, 2005

Sir:

Pursuant to the duty of disclosure applicants cite the documents listed on the attached Form PTO-1449. Most of the cited documents were previously submitted in related application serial no. 09/820,895, now U.S. Patent No. 6,562,075, the earlier effective filing date of which is relied on under 35 U.S.C. §120 such that copies of those documents are not enclosed, 37 C.F.R. §1.98(d)(i).

The Examiner's attention is also directed to other pending U.S. applications of applicants:

U.S. application serial nos.

09/606,075

09/917,660

10/131/142

10/263,795

10/408,107; and also pending

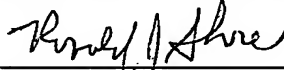
international application

PCT/US03/09506.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus, LLP, Deposit Account No. 01-2135 (Case: 183.39735AX4), and please credit any excess fees to such deposit account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP



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Attachments

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 183.39735AX	SERIAL NO. 10/529220 <small>To be assigned</small>
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT B. TOWNSEND ET AL.	
		FILING DATE March 25, 2005	GROUP

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA	3,335,428	08/15/67	Gajdos			11/02/64
AB	4,721,510	01/26/88	Cooper et al.			02/24/87
AC	4,822,363	04/18/89	Phillips			03/26/87
AD	5,066,305	11/19/91	Firth			10/25/88
AE	5,156,632	10/20/92	Wellershaus			11/08/91
AF	5,181,932	01/26/93	Phillips			04/13/89
AG	5,219,365	06/15/93	Sabolich			08/26/92
AH	5,458,656	10/17/95	Phillips			12/20/93
AI	5,482,513	01/09/96	Wilson			10/12/93
AJ	5,514,185	05/07/96	Phillips			01/21/94
AK	5,545,230	08/13/96	Kinsinger et al.			10/11/94
AL	5,571,213	11/05/96	Allen			08/19/94
AM	5,593,456	01/14/97	Merlette			01/14/97
AN	5,593,457	01/14/97	Phillips			09/22/95
AO	5,653,767	08/05/97	Allen et al.			12/12/95
AP	5,695,526	12/09/97	Wilson			01/31/95
AQ	5,702,488	12/30/97	Wood et al.			09/12/95
AR	5,725,598	03/10/98	Phillips			06/06/95
AS	5,728,177	03/17/98	Phillips			08/05/96
AT	5,728,176	03/17/98	Phillips			10/30/95
AU	5,800,569	09/01/98	Phillips			08/15/95
AV	5,824,112	10/20/98	Phillips			03/31/93
AW	5,897,594	04/27/99	Martin et al.			03/04/97
AX	5,899,944	05/04/99	Phillips			04/23/96
AY	5,993,488	11/30/99	Phillips			05/13/98
AZ	6,071,313	06/06/00	Phillips			05/22/98
Examiner				Date Considered		

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 183.39735AX4	SERIAL NO. 10/529220 To be assigned
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	AA 6,228,043	05/08/01	Townsend et al.			07/18/97
	AB 6,270,468	08/07/01	Townsend et al.			06/29/00
	AC 6,562,075	05/13/03	Townsend et al.			03/30/01
	AD 5,443,522	08/22/95	Hiemisch			04/26/93
	AE 5,443,527	08/22/95	Wilson			03/31/93
	AF 5,766,264	06/16/98	Lundt			08/30/96
	AG 4,892,554	01/09/90	Robinson			12/21/87
	AH 4,959,073	09/25/90	Merlette			06/06/88
	AI 5,376,139	12/27/94	Pitkin			09/21/92
	AJ 5,549,714	08/27/96	Phillips			01/12/96
	AK 5,653,768	08/05/97	Kania			01/21/94
	AL 5,976,191	11/02/99	Phillips			10/08/96
	AM 6,443,995	09/03/02	Townsend et al.			12/22/00
	AN 5,800,568	09/01/98	Atkinson et al.			02/16/96

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
	AO FR 2 640 499 A1	06/90	France				
	AP WO 91/00070	01/91	International				
	AQ CA 2,103,341 A1		Canada				
	AR						
	AS						
	AT						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	PCT Written Opinion from International Application No. PCT/US02/06901
	AV	International Search Report from International Application No. PCT/US01/48954
	AW	International Search Report (April 2002); International application no. PCT/US02/09573
	AX	International Search Report (July 1998); International application no. PCT/US02/30471
	AY	Atkinson et al.; Publication No. US 2002/0087216A1
	AZ	
Examiner		Date Considered

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Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 183.39735AX4	SERIAL NO. 107529220 To be assigned
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT B. TOWNSEND, et al.	
		FILING DATE March 25, 2005	GROUP

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	AA	5,509,937	04/23/96	Allard et al.		
	AB	5,258,039	11/02/93	Goh et al.		
	AC	5,376,141	12/27/94	Phillips		
	AD	4,645,509	02/87	Poggie et al.		
	AE	5,112,356	05/92	Harris et al.		
	AF	5,314,499	05/94	Collier Jr.		
	AG	5,776,205	07/98	Phillips		
	AH	6,051,026	04/00	Biedermann et al.		
	AI	4,911,724 A	5/27/90	Fikes		
	AJ	6,402,790	06/11/02	Celebi		
	AK	4,994,086	02/19/91	Edwards		06/04/90
	AL	5,507,838	04/16/96	Chen		02/17/04
	AM	6,514,293	02/04/03	Jang et al.		10/23/00
	AN	6,602,295	08/05/03	Doddroe et al.		02/11/00

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation / Abstract	
						Yes	No
	AO	DE 325171 C1	10/1920	Germany			
	AP	EP 0 648 479 A1	10/1993	Denmark		Abstr act	
	AQ	WO 94/10942	05-1994	PCT-WIPO			
	AR	29920434 U1	05/11/00	Germany			
	AS						
	AT						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	Universal Offset Pyramid Adapter; 2 pages
	AV	International Search Report; PCT/US03/09506; filed March 31, 2003.
	AW	
	AX	
	AY	
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Examiner		Date Considered

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 183.39735AX4	SERIAL NO. 101529220 To be assigned
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA	640,540	1/2/1900	R.E. Daniels			07/30/1898
AB	810,180	1/16/1906	H.C. Wintermute			05/02/1905
AC	2003/0120354	06/26/03	Doddroe, et al.			01/29/03
AD	2003/0093158	05/15/03	Phillips et al.			12/17/02
AE	2003/0009238	01/09/03	Whayne			07/03/02
AF	2002/0087216	07/04/02	Atkinson et al.			02/25/02
AG	2002/0077706	06/20/02	Phillips			08/30/01
AH	2002/0116072	08/22/02	Rubie et al.			02/09/01
AI	6,350,286	02/26/02	Atkinson et al.			08/05/99
AJ	6,290,730	09/18/01	Pitkin et al.			03/16/00
AK	6,241,776	06/05/01	Christensen			07/07/99
AL	5,181,933	01/26/93	Phillips			02/28/91
AM	6,406,500	06/18/02	Phillips			11/02/99
AN	6,527,811	03/04/03	Phillips			12/16/97

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
AO	2734151	11/22/96	French			X	
AP	0793949A1	09/10/97	Europe			X	
AQ	19717298C1	05/07/98	Germany			X	
AR	11-299815	11/02/99	Japan			X	
AS	9-327473	12/22/97	Japan			X	
AT							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 183.39735AX4	SERIAL NO. 10/529220 To be assigned
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U.S. PATENT DOCUMENTS

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AA	5,509,938	04/23/96	Phillips			01/04/94
AB	5,290,319	03/01/94	Phillips			02/28/91
AC	5,486,209	01/23/96	Phillips			07/01/94
AD	5,509,936	04/23/96	Rappoport, et al.			06/30/94
AE	5,387,246	02/07/95	Phillips			02/12/93
AF	5,116,383	05/26/92	Shorter et al.			03/03/89
AG	2002/00402 49	04/04/02	Phillips			09/20/01
AH	6,280,479	08/28/01	Phillips			04/09/99
AI	6,077,301	06/20/00	Pusch			04/22/98
AJ	5,139,525	08/18/92	Kristinsson			12/23/91
AK	5,062,859	11/05/91	Naeder			06/11/90
AL	5,019,109	05/28/91	Voisin			03/09/90
AM						

FOREIGN PATENT DOCUMENTS

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FORM PTO-1449 U.S. Department of Commerce
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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ATTY. DOCKET NO.

183.39735AX4

SERIAL NO.

107529220
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APPLICANT

Barry W. TOWNSEND et al.

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U.S. PATENT DOCUMENTS

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	AA	5,653,767	8-5-97	Allen et al.			12-12-95
	AB	5,376,133	12-27-94	Gramnas			3-28-91
	AC	5,695,527	12-9-97	Allen			12-12-95
	AD	5,746,773	5-5-98	Littig			3-13-96
	AE	5,944,760	8-31-99	Christensen			8-4-97
	AF	6,099,572	8-8-00	Mosler et al.			4-22-98
	AG	6,187,052 B1	2-13-01	Molino et al.			7-14-99
	AH	6,206,934 B1	3-27-01	Phillips			8-21-98
	AI	5,653,768	8-5-97	Kania			1-21-94
	AJ	6,206,932	3-27-01	Johnson			11-24-98

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation/ ABSTRACT
							YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AK	International Search Report in corresponding PCT application No. PCT/US02/09571 dated September 27, 2002.
	AL	International Search Report in corresponding PCT application No. PCT/US02/09589 dated September 11, 2002.

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FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark Office

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation/ ABSTRACT
					YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	Perry J. and Shanfield S., <i>Efficiency of Dynamic Elastic Response Prosthetic Feet; Gait Initiation in Below-Knee Amputees: Analysis of Safe Function; Biomechanical Evaluation of Energy-Storing Prosthetic Feet</i> , J. Rehabilitation Research and Development Service (Project #A517-RA), 1990, pp. 37, 38 & 44.
AN	Barth, D.G., Schumacher, L. and Thomas, S.S., <i>Gait Analysis and Energy Cost of Below-Knee Amputees Wearing Six Different Prosthetic Feet</i> , JPO: Journal of Prosthetics and Orthotics, 1992, Vol. 4, No. 2, pp. 626-638.
AO	Menard, M.R. and Murray D.D., <i>Subjective and Objective Analysis of an Energy-Storing Prosthetic Foot</i> , Journal of Prosthetics and Orthotics, 1989, Vol. 1, No. 4, pp. 173-183.
AP	Menard, M.R., McBride, M.E., Sanderson, D.J. and Murray, D.D., <i>Comparative Biomechanical Analysis of Energy-Storing Prosthetic Feet</i> , Archives of Physical Medicine and Rehabilitation, May 1992, Vol. 73, pp. 451-458.
AQ	Prince, F., Winter, D.A. et al., <i>Mechanical Efficiency During Gait of Adults with Transtibial Amputation: A Pilot Study Comparing the SACH, Seattle, and Golden-Ankle Prosthetic Feet</i> , Journal of Rehabilitation Research and Development, June 1998, Vol. 35, No. 2, pp. 177-185.
AR	Winter, D.A., <i>Biomechanics of Human Movement</i> , John Wiley & Sons, Inc., 1979, pp 61, 117-121.
AS	Mann, R.A. and Hagy, J.L., <i>The Function of the Toes in Walking, Jogging and Running</i> , J.J.B. Lippincott Company, 1979, Vol. 142, pp. 24-29.
AT	Perry, J., <i>Gait Analysis: Normal and Pathological Function</i> , SLACK Incorporated, Thorofare, NJ, 1992, Chapter 4: Ankle Foot Complex, Chapter 19: Ground Reaction Force and Vector Analysis, Chapter 21: Energy Expenditure.
AU	Valmassy, R.L., <i>Clinical Biomechanics of the Lower Extremities</i> , Mosby, 1996, Chapter 1: Lower Extremity Function and Normal Mechanics.
AV	Hsu, M. and Nielsen, D., et al., <i>Physiological Measurements of Walking and Running in People with Transtibial Amputations With 3 Different Prostheses</i> , Journal of Othopaedic & Sports Physical Therapy, Sept. 1999; Vol. 29, No. 9, pp. 527-533.
AW	Macfarlane, P.A. and Nielsen, D.H. et al., <i>Gait Comparisons for Below-Knee Amputees Using a Flex-Foot™ Versus a Conventional Prosthetic Foot</i> , Journal of Prosthetics and Orthotics, 1991, Vol. 3, No. 4, pp. 526-537.
AX	Neilson, D.H. and Shurr, D.G. et al., <i>Comparison of Energy Cost and Gait Efficiency During Ambulation in Below-Knee Amputees Using Different Prosthetic Feet - A Preliminary Report</i> , Journal of Prosthetics and Orthotics, 1988, Vol. 1, No. 1, pp. 24-31.

EXAMINER

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(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. Department of Commerce
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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation/ ABSTRACT
					YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AY	Macfarlane, P.A. and Nielsen, D.H. et al., <i>Perception of Walking Difficulty by Below-Knee Amputees Using a Conventional Foot Versus the Flex-Foot</i> , Journal of Prosthetics and Orthotics, 1991, Vol. 3, No. 3., pp. 503-508.
AZ	Childress, D., <i>Mechanical Properties of Prosthetic and Human Feet: From Shoes to Computer Alignment</i> , 2 nd Conference of Advanced Prosthetics, April 2002.
BA	Wirta, R.W. et al., <i>Effect on Gait Using Various Prosthetic Ankle-Foot Devices</i> , Journal of Rehabilitation Research and Development, 1991, Vol. 28, No. 2, pp. 13-24.
BB	Winter, D.A. and Patia A.E. et al., <i>Biomechanical Walking Pattern Changes in the Fit and Healthy Elderly</i> , Physical Therapy, June 1990, Vol. 70, No. 6, pp 340/15 - 346/21.
BC	Ayyappa, E., <i>Normal Human Locomotion, Part 1: Basic Concepts and Terminology</i> , Journal of Prosthetics and Orthotics, Winter 1997, Vol. 9, No. 1, pp. 10-17.
BD	Ayyappa, E., <i>Normal Human Locomotion, Part 2: Motion, Ground-Reaction Force and Muscle Activity</i> , Journal of Prosthetics and Orthotics, Spring 1997, Vol. 9, No. 2, pp. 49-57.
BE	Winter, D.A., <i>Biomechanics and Motor Control of Human Movement</i> , University of Waterloo, John Wiley & Sons, Inc., 1990, Chapter 7.
BF	J.B. Saunders, et al., <i>The Major Determinants in Normal and Pathological Gait</i> , Journal of Bone and Joint Survey, July 1953, Vol. 35A, No. 3, pp. 543-558.
BG	Komi, P.V., <i>Strength and Power in Sport</i> , Blackwell Scientific Publications, 1992, Chapter 6B, pp. 115-129.
BH	McComas, A.J., <i>Skeletal Muscle Form and Function</i> , Human Kinetics, Champaign, IL, 1996, pp. 326-375.
BI	Mattes, S.J., et al., <i>Walking Symmetry and Energy Cost in Persons with Unilateral Transtibial Amputations: Matching Prosthetic and Intact Limb Inertial Properties</i> , Archives of Physical Medicine and Rehabilitation, May 2000, Vol. 81, pp. 561-568.
BJ	Bojsen-Moller, F., <i>Calcaneocuboid Joint and Stability of the Longitudinal Arch of the Foot at High and Low Gear Push Off</i> , Journal of Anatomy, August-December 1979, Vol. 129, pp.165-176.
BK	Hicks, J.H., <i>The Mechanics of the Foot, The Plantar Aponeurosis and the Arch</i> , Journal of Anatomy, 1954, Vol. 88, Pt. 1, pp. 25-31.
BL	Brunnstrom, S. (revised by R. Dickinson), <i>Clinical Kinesiology</i> , F.A. Davis Company, Philadelphia, 1972, pp. 35.
BM	Stiehl, J., <i>Inman's Joints of the Ankle</i> (2 nd Ed.), Williams & Wilkins, Baltimore, MD, 1991, p. 39.
BN	Bateni, H., et al., <i>Kinematic and Kinetic Variations of Below-Knee Amputee Gait</i> , Prosthetic and Orthotic Science, 2002, Vol. 14, No. 1, pp. 2-10.

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